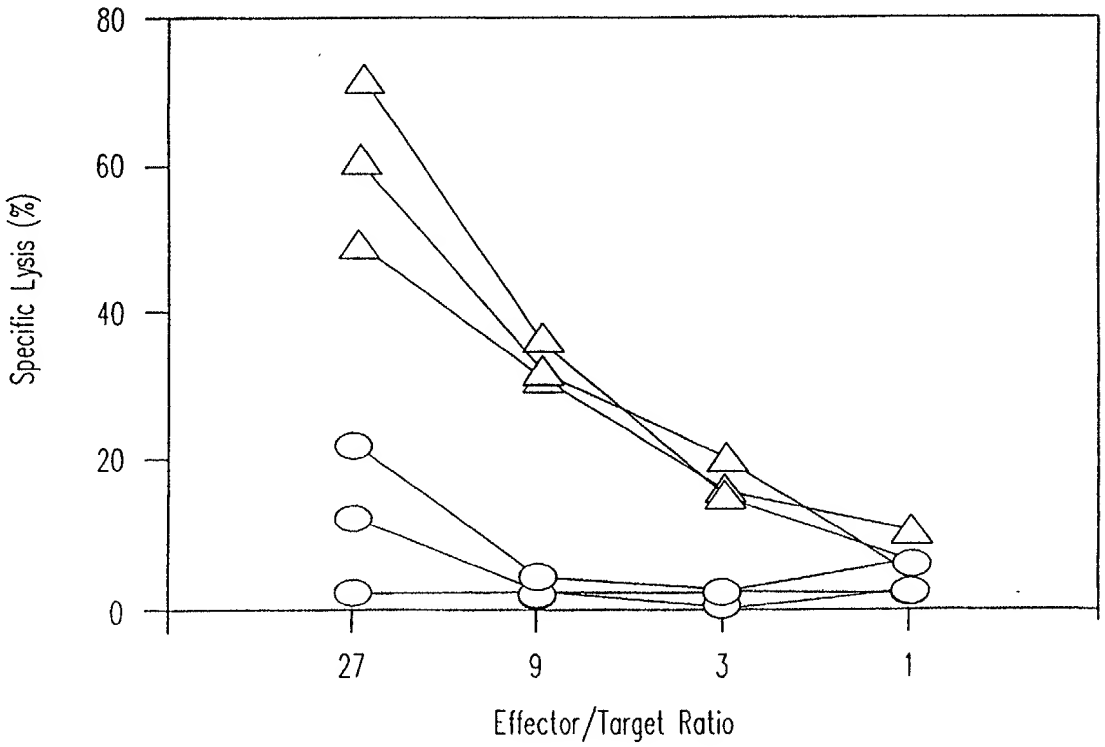


FIG. 1

PCT/US97/22268

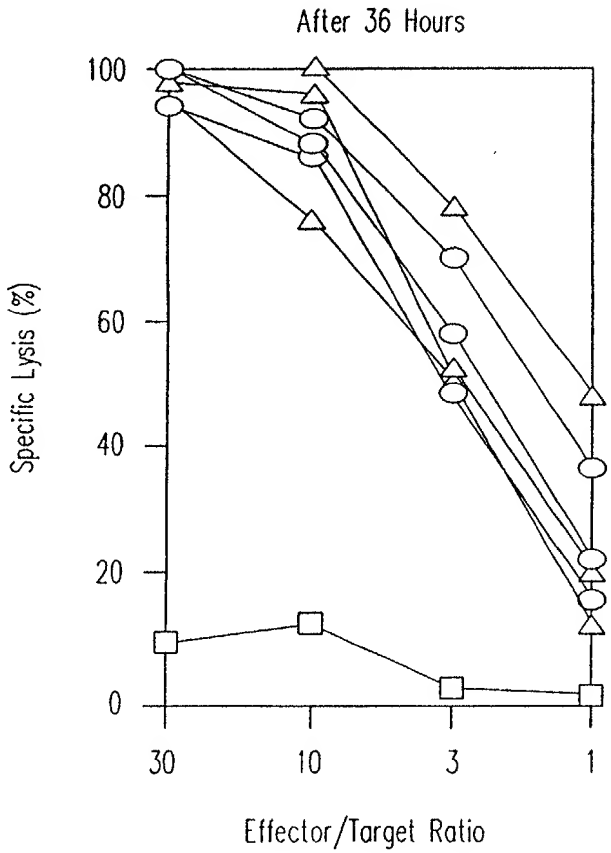


FIG. 2A

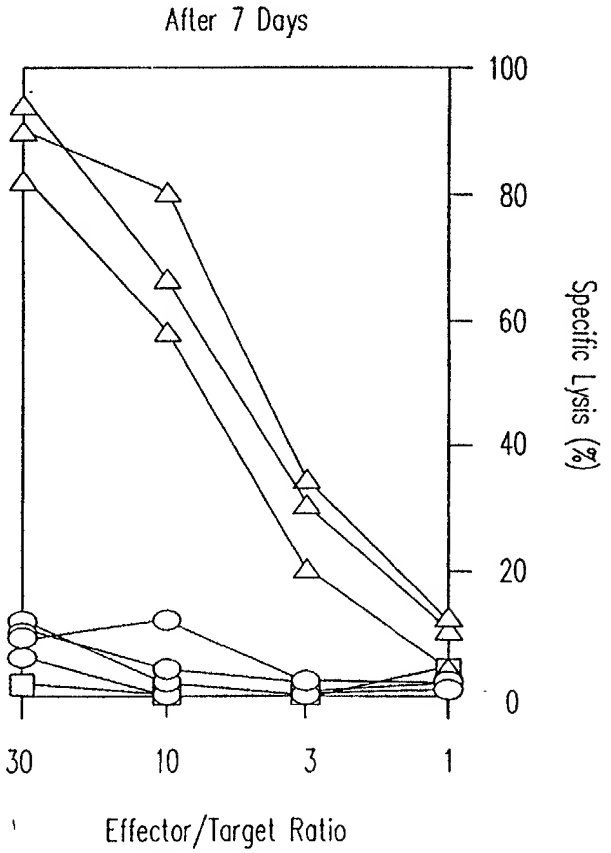


FIG. 2B

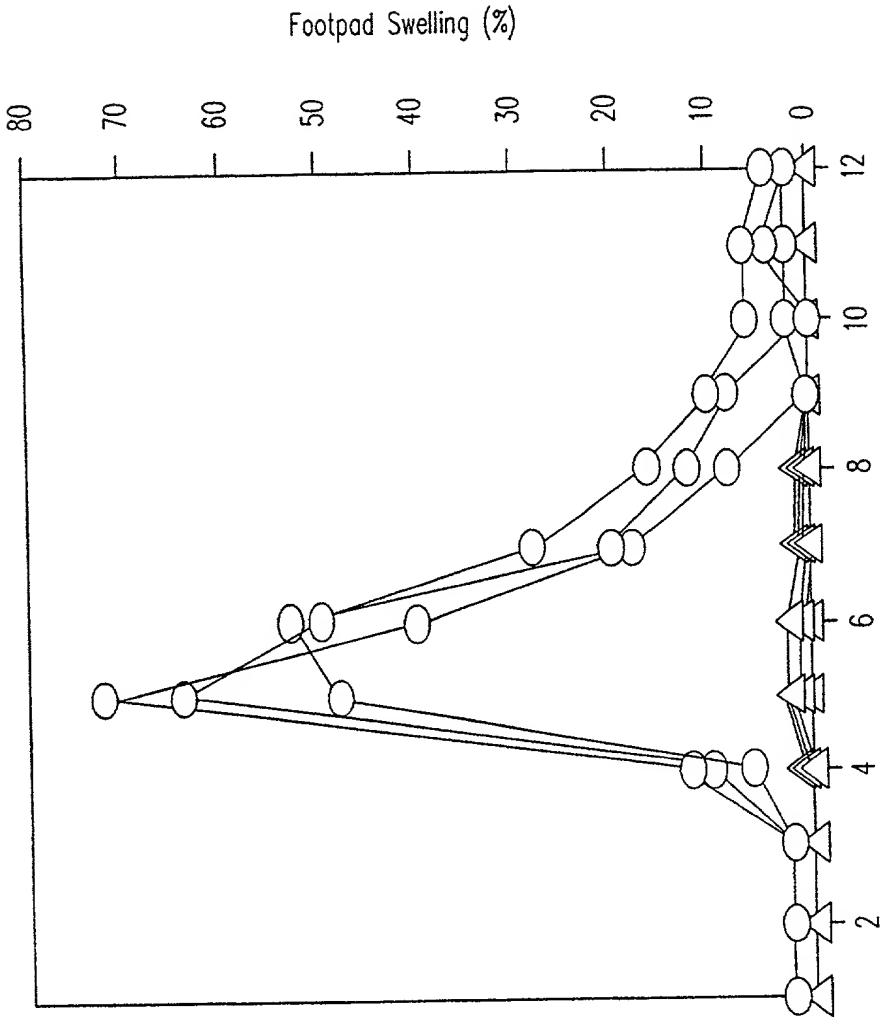


FIG. 2C

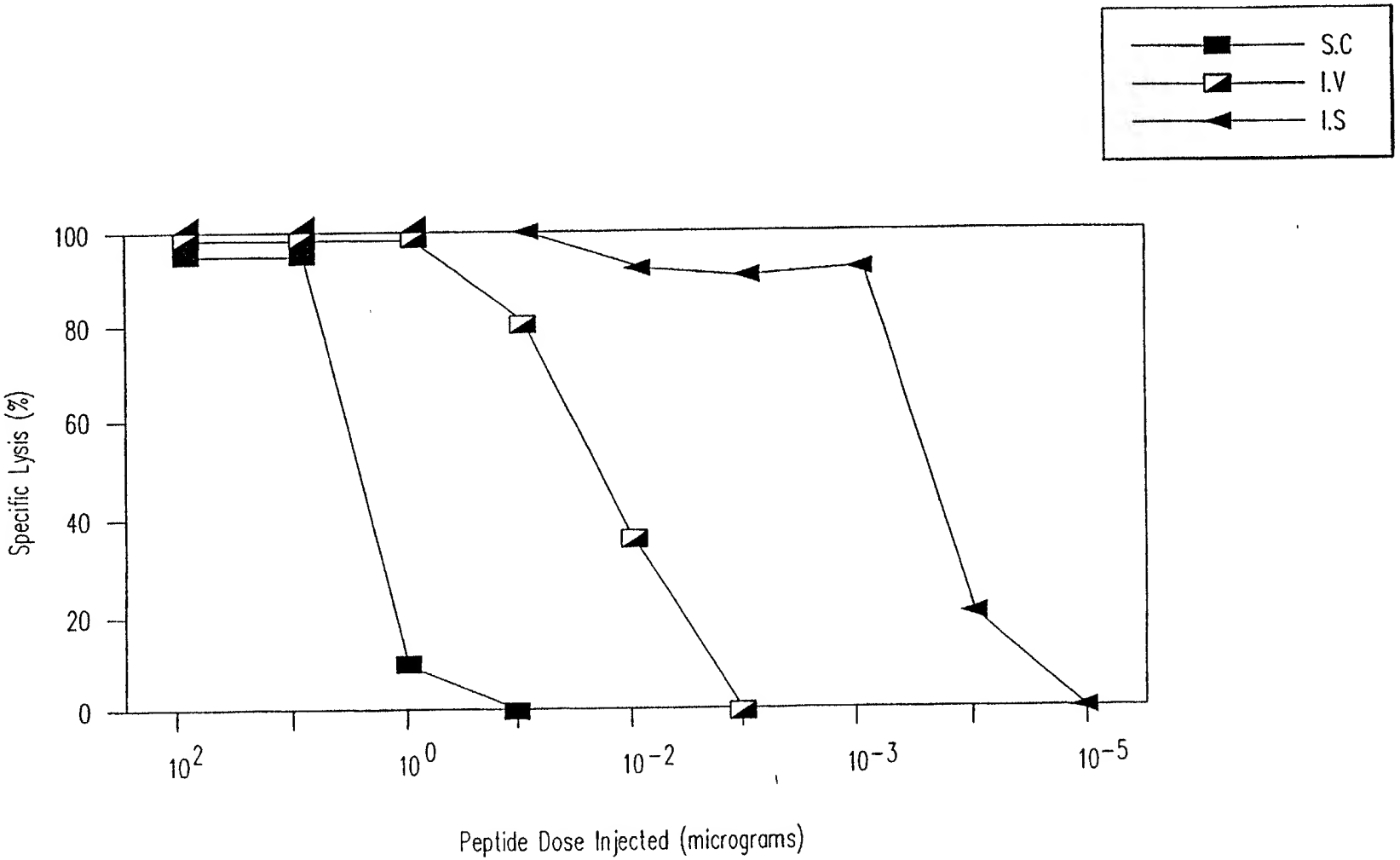

S.C
I.V
I.S
100
80
60
40
20
0
Specific Lysis (%)
10^2
10^0
10^{-2}
10^{-3}
10^{-5}
Peptide Dose Injected (micrograms)

FIG. 3

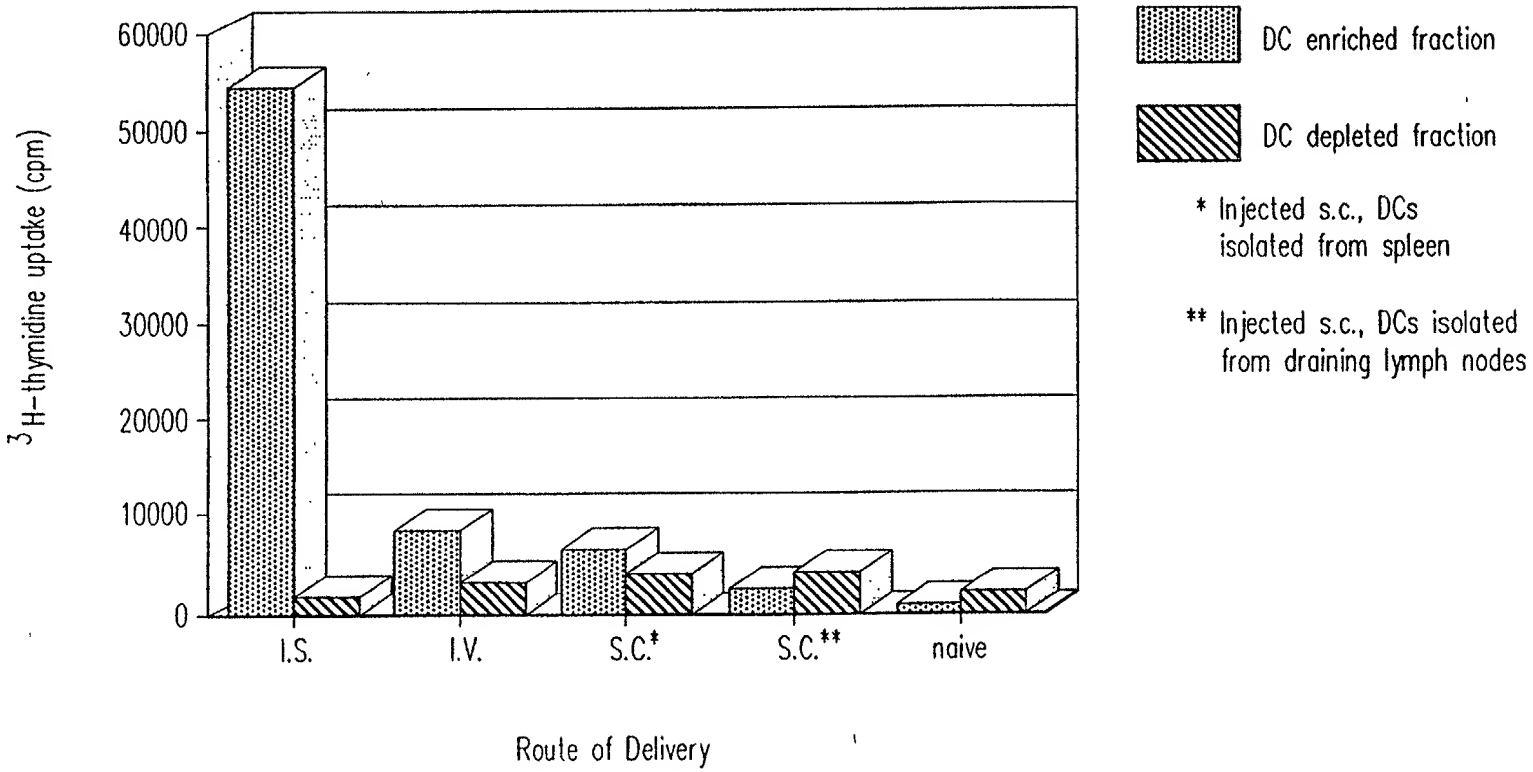

60000
50000
40000
30000
20000
10000
0
^{3}H-thymidine uptake (cpm)
I.S.
I.V.
S.C.*
S.C.**
naive
Route of Delivery
DC enriched fraction
DC depleted fraction
* Injected s.c., DCs isolated from spleen
** Injected s.c., DCs isolated from draining lymph nodes

FIG. 4

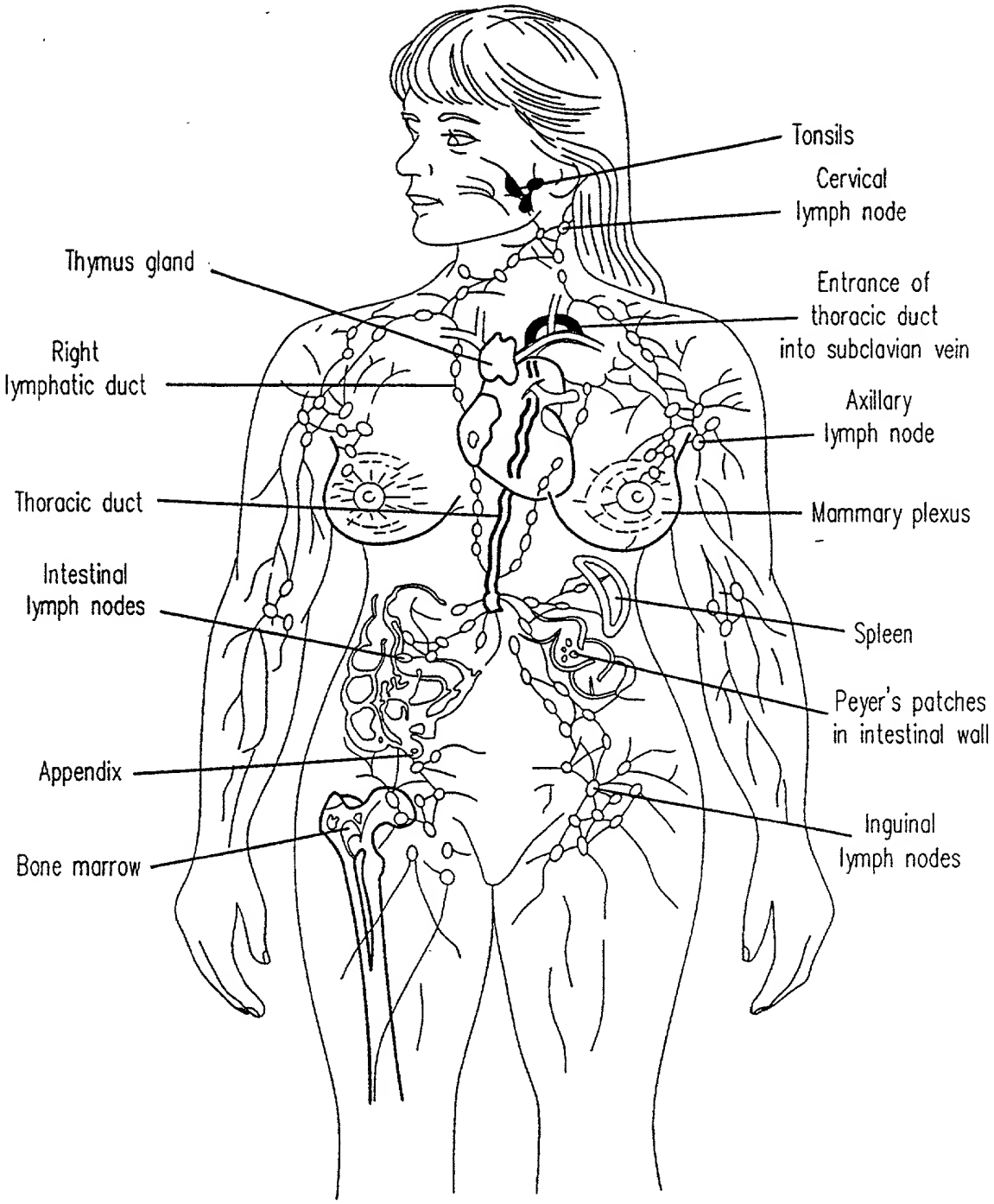

Tonsils
Cervical lymph node
Thymus gland
Entrance of thoracic duct into subclavian vein
Right lymphatic duct
Axillary lymph node
Thoracic duct
Mammary plexus
Intestinal lymph nodes
Spleen
Peyer's patches in intestinal wall
Appendix
Inguinal lymph nodes
Bone marrow

FIG. 5

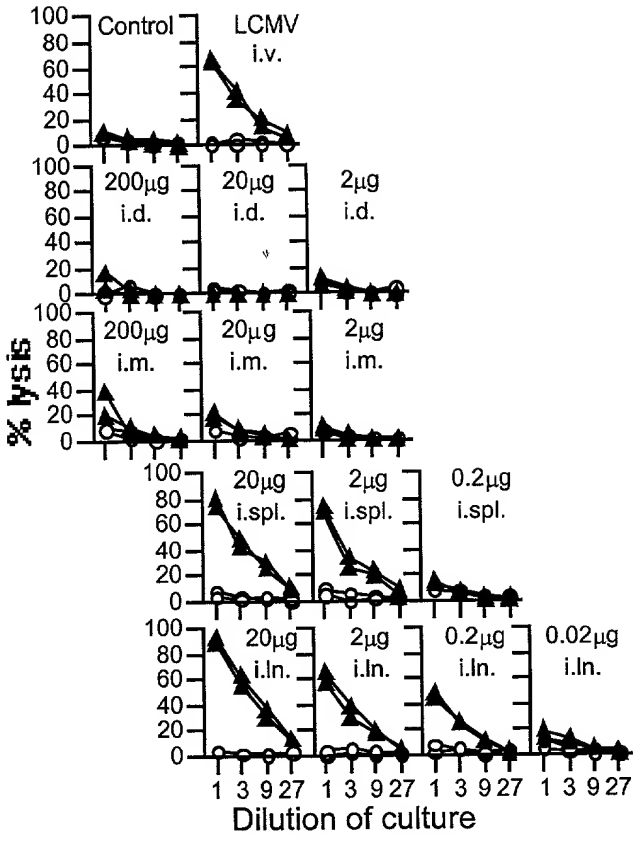


Figure 6.

Graphs show lysis of unpulsed EL4 cells (open circles) and EL4 cells pulsed with gp33 peptide (solid triangles). Symbols represent individual mice.

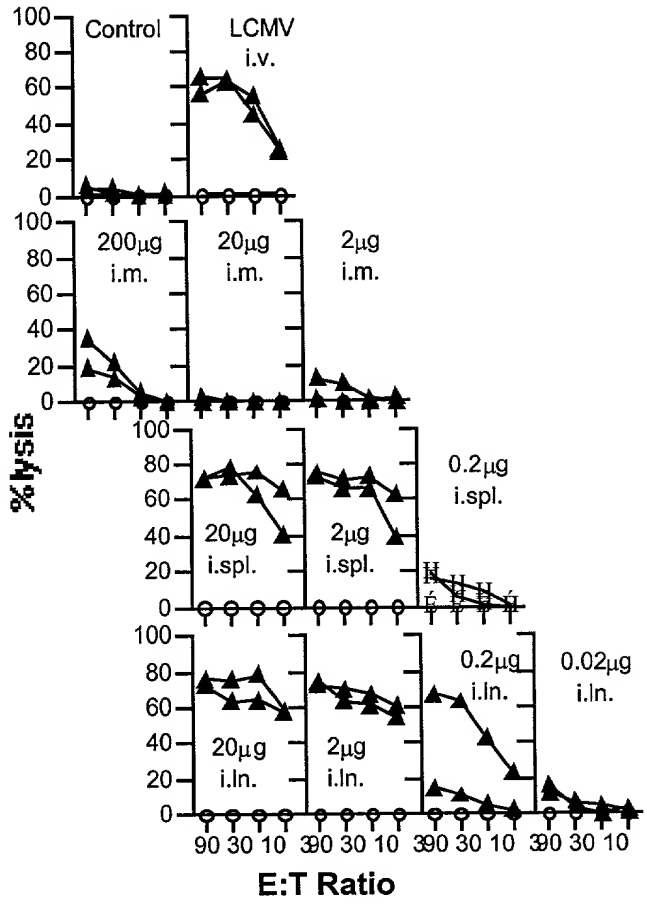


Figure 7.

Graphs show lysis of unpulsed EL4 cells (open circles) and EL4 cells pulsed with gp33 peptide (solid triangles). Symbols represent individual mice.

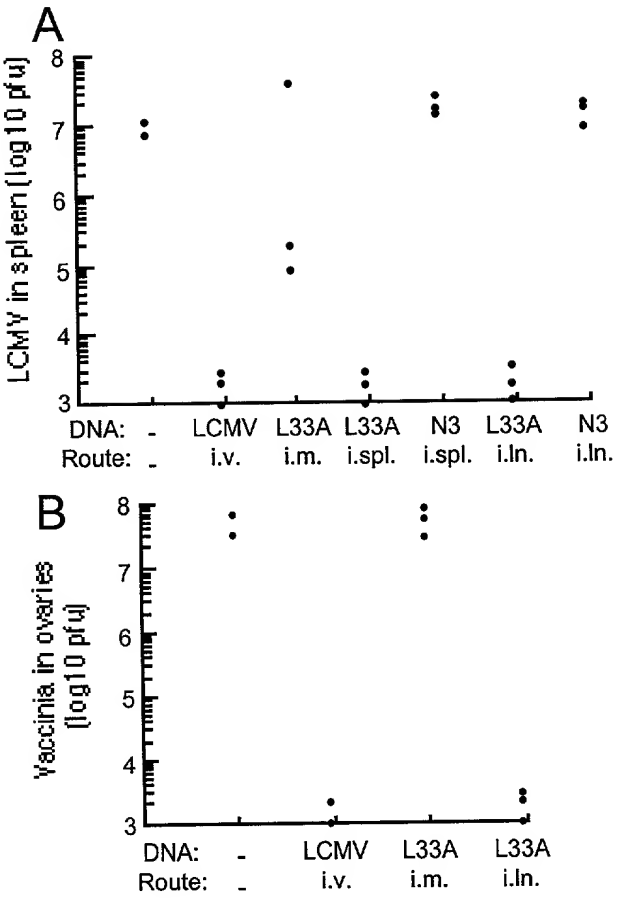


Figure 8.

Graphs show systemic LCMV titers (A), and vaccinia titers in ovaries (B). Symbols represent individual mice.

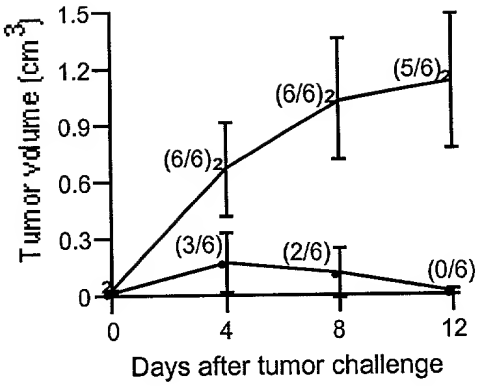


Figure 9.

Mean tumor volumes ±1SD are shown for mice immunized with pEFGPL33A DNA (solid circles) or control pEGFP-N3 DNA (open triangles). Numbers in brackets indicate number of mice with tumors / total number of mice in group.

Figure 10.

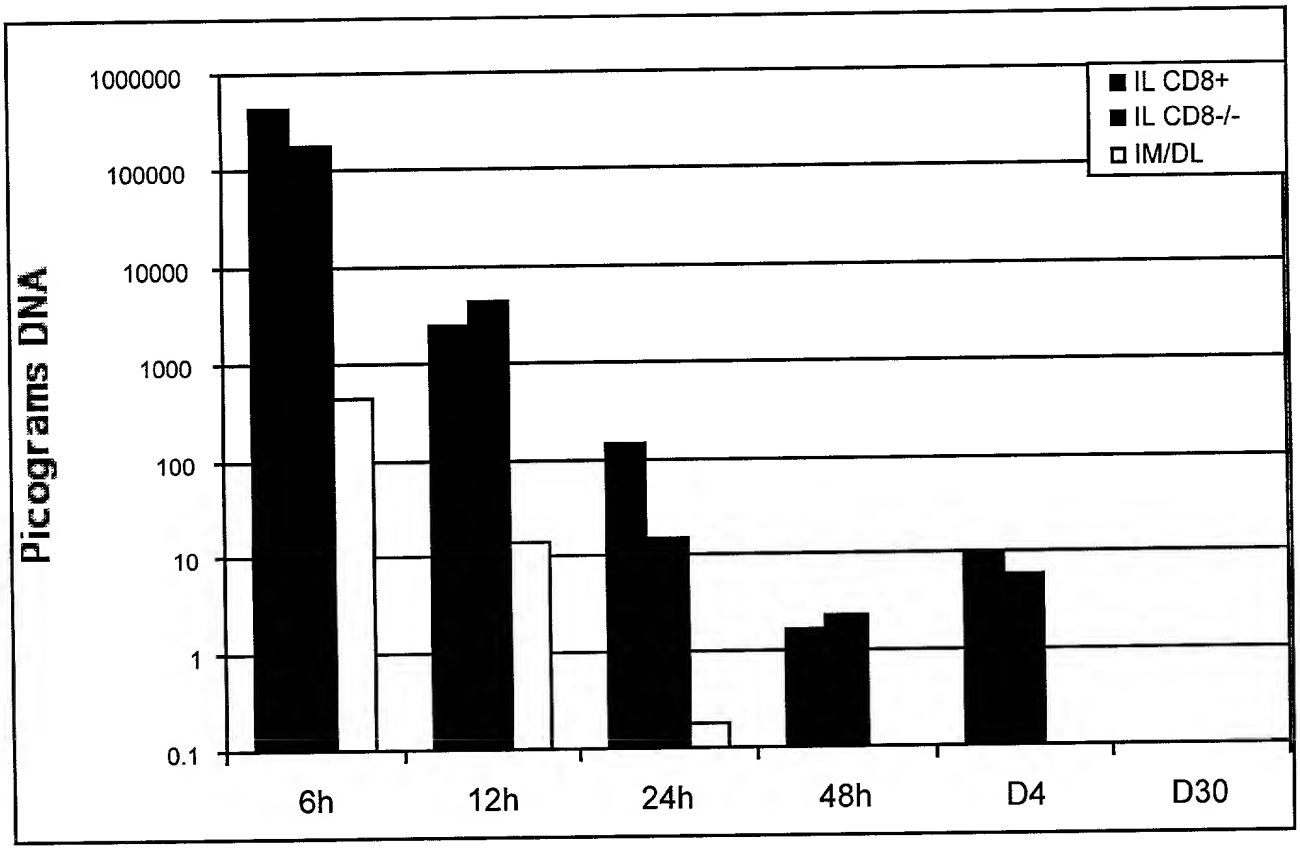
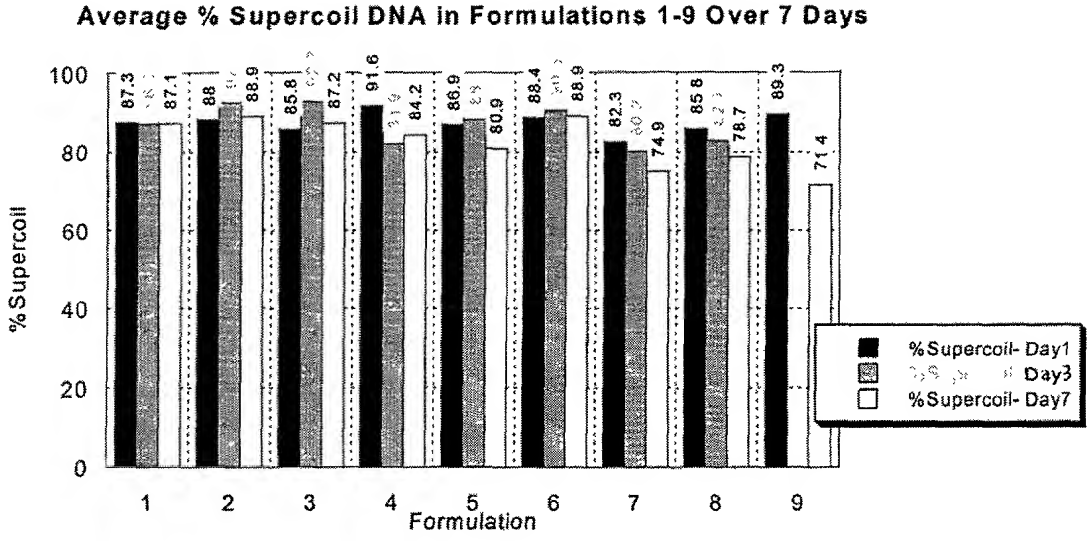

Picograms DNA
1000000
100000
10000
1000
100
10
1
0.1
6h
12h
24h
48h
D4
D30
IL CD8+
IL CD8-/-
IM/DL

Figure 11.



Formulations

1. 10% Ethanol, 0.25mM EDTA, Citrate Phosphate pH 7.6
2. 10% Ethanol, 0.25mM EDTA, Citrate Phosphate pH 7.4
3. 1% Ethanol, 0.5mM EDTA, Citrate Phosphate pH 7.4
4. 1% Ethanol, 0.5mM EDTA, 1X PBS pH 7.4
5. 0.5% Benzyl Alcohol, 0.25mM EDTA, Citrate Phosphate pH 7.6
6. 1% Benzyl Alcohol, 1% Ethanol, 0.5mM EDTA, Citrate Phosphate pH 7.6
7. 1% Benzyl Alcohol, 1% Ethanol, 0.5mM EDTA, 0.1M TRIS pH 7.4
8. 1% Benzyl Alcohol, 1% Ethanol, 0.5mM EDTA, 0.1M TRIS pH 8.2
9. 1% Benzyl Alcohol, 1X PBS pH 8.2